

EAST Search History

S3	48	("2531048" "2531049" "2804798" "3057246" "3066568" "3122050" "3203300" "3215024" "3290982" "3415553" "3425259" "3464306" "3915053" "4136596" "4198895" "4221152" "4299519" "4472096" "4587829" "4597263" "4768910" "4813834" "4867625" "4878372" "4900205" "4921384" "4943196" "4950115" "4977663" "5090852" "5125778" "5228817" "5315755" "5527140").PN. OR ("6325582").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/08 16:20
S4	199	(411/361).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/11 12:41
S5	0	("swageandfastenerandpinandcollarandgrooveandcrest").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/08 16:42
S6	19	swage and fastener and pin same (groove and crest) and collar same (groove and shoulder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:53
S7	34	swage\$5 and fastener and collar with shear adj strength	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/08 17:31
S8	7	(US-20010029651-\$).did. or (US-6702684-\$ or US-6497024-\$ or US-6233802-\$ or US-5685663-\$ or US-5548889-\$ or US-4472096-\$). did.	US-PGPUB; USPAT	OR	ON	2005/04/08 18:25
S9	7	(US-20010029651-\$).did. or (US-4472096-\$ or US-5548889-\$ or US-5685663-\$ or US-6233802-\$ or US-6497024-\$ or US-6702684-\$). did.	US-PGPUB; USPAT	OR	ON	2005/04/11 08:13
S10	2	10/117741	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 08:16
S11	19	swage and fastener and pin same (groove and crest) and collar same (groove and shoulder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:41

EAST Search History

S12	15	S11 and pin with (Aluminum or Al or ti or titanium or steel or alloy) and collar with (Aluminum or Al or ti or titanium or steel or alloy)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 08:43
S13	5	S11 and pin with (Aluminum or Al or ti or titanium or steel or alloy) and collar with (titanium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 08:45
S14	48	("2531048" "2531049" "2804798" "3057246" "3066568" "3122050" "3203300" "3215024" "3290982" "3415553" "3425259" "3464306" "3915053" "4136596" "4198895" "4221152" "4299519" "4472096" "4587829" "4597263" "4768910" "4813834" "4867625" "4878372" "4900205" "4921384" "4943196" "4950115" "4977663" "5090852" "5125778" "5228817" "5315755" "5527140").PN. OR ("6325582").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/11 08:45
S15	4	S14 and pin with (Aluminum or Al or ti or titanium or steel or alloy) and collar with (titanium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 09:47
S16	16	("3203300" "3915053" "4208943" "4221152" "4437805" "4472096" "4519736" "4813834" "4867625" "5049016" "5090852" "5125778" "5604968" "6233802" "6325582").PN. OR ("6702684").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/11 09:46
S17	34	("2531048" "2955505" "3241421" "3483788" "3560124" "3915053" "4197782" "4202242" "4221152" "4324518").PN. OR ("4472096").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/11 09:47
S18	77	S14 or S16 or S17	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/11 09:47
S19	6	S18 and pin with (Aluminum or Al or ti or titanium or steel or alloy) and collar with (titanium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:42

EAST Search History

S20	2	S19 not S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 09:47
S21	11	(US-20010029651-\$).did. or (US-4472096-\$ or US-5548889-\$ or US-5685663-\$ or US-6233802-\$ or US-6497024-\$ or US-6702684-\$ or US-4221152-\$ or US-4943196-\$ or US-6325582-\$ or US-4519736-\$). did.	US-PGPUB; USPAT	OR	ON	2005/04/11 09:49
S22	241	(470/2,10).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:15
S23	2239	(29/525.01,525.02,525.11,715,515, 520,).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:15
S24	280	(470/2,10,5,6).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:15
S25	2507	S23 or S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:40
S26	199	(411/361).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:15
S27	2686	S25 or S26	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:41
S28	16	S27 and swage and fastener and pin same (groove and crest) and collar same (groove and shoulder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 13:27
S29	16	S27 and fastener and pin same (groove and crest) and collar same (groove and shoulder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:42
S30	76	S27 and fastener and pin same (groove) and collar same (groove)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:42

EAST Search History

S31	9	S30 and pin with (Aluminum or Al or ti or titanium or steel or alloy) and collar with (titanium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:45
S32	4	("2,531,048").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/11 12:45
S33	25	("2531048").URPN.	USPAT	OR	ON	2005/04/11 12:46
S34	21	(US-20010029651-\$).did. or (US-4472096-\$ or US-5548889-\$ or US-5685663-\$ or US-6233802-\$ or US-6497024-\$ or US-6702684-\$ or US-4221152-\$ or US-4943196-\$ or US-6325582-\$ or US-4519736-\$ or US-5219255-\$ or US-2531048-\$ or US-5125778-\$ or US-5090852-\$ or US-4867625-\$ or US-4813834-\$ or US-4653969-\$ or US-4347728-\$ or US-RE30445-\$ or US-3915053-\$). did.	US-PGPUB; USPAT	OR	ON	2005/04/11 12:49
S35	33	("2372222" "2384037" "2405897" "2428165" "2803984" "3044332" "3178989" "3215024" "3425259" "3460429" "3483788" "3880042").PN. OR ("4221152").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/11 12:49
S36	68	lockbolt and pin same (groove) and collar same (groove) and swag\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:54
S37	68	S36 and collars	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 12:54
S38	32	S36 and collars	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/11 12:54
S39	12	("0477241" "3521398").PN. OR ("3695086").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/11 13:26
S40	137	swage and (Lockbolt or fastener) and pin same (groove) and collar same (groove)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 13:28
S41	41	swage and (Lockbolt or fastener) and pin same (groove) and collar with (multiple or alternate or varying or varied or different)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/11 13:54

EAST Search History

S42	25	(US-20010029651-\$).did. or (US-4472096-\$ or US-5548889-\$ or US-5685663-\$ or US-6233802-\$ or US-6497024-\$ or US-6702684-\$ or US-4221152-\$ or US-4943196-\$ or US-6325582-\$ or US-4519736-\$ or US-5219255-\$ or US-2531048-\$ or US-5125778-\$ or US-5090852-\$ or US-4867625-\$ or US-4813834-\$ or US-4653969-\$ or US-4347728-\$ or US-RE30445-\$ or US-3915053-\$ or US-3483788-\$ or US-3460429-\$). did. or (US-3483788-\$).did. or (BE-892797-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2005/04/11 13:35
S43	25	(US-20010029651-\$).did. or (US-2531048-\$ or US-3460429-\$ or US-3483788-\$ or US-3915053-\$ or US-4221152-\$ or US-4347728-\$ or US-4472096-\$ or US-4519736-\$ or US-4653969-\$ or US-4813834-\$ or US-4867625-\$ or US-4943196-\$ or US-5090852-\$ or US-5125778-\$ or US-5219255-\$ or US-5548889-\$ or US-5685663-\$ or US-6233802-\$ or US-6325582-\$ or US-6497024-\$ or US-6702684-\$ or US-RE30445-\$). did. or (US-3483788-\$).did. or (BE-892797-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2005/09/27 14:51
S44	2294	(29/525.01,525.02,525.11,715,515, 520,).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:16
S45	282	(470/2,10,5,6).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/09/27 14:52
S46	200	(411/361).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/09/27 14:52
S47	2744	S44 or S45 or S46	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/27 16:34
S48	2294	(29/525.01,525.02,525.11,715,515, 520,).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/09/27 16:34

EAST Search History

S49	282	(470/2,10,5,6).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/09/27 16:34
S50	200	(411/361).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/09/27 16:34
S51	2744	S48 or S49 or S50	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/27 16:34
S52	165	pin and collar and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/27 16:34
S53	38	("2531048" "2531049" "2804798" "3057246" "3066568" "3122050" "3215024" "3290982" "3415553" "3425259" "3915053" "4136596" "4198895" "4221152" "4299519" "4472096" "4587829" "4597263" "4813834" "4867625" "4878372" "4921384" "4943196" "5090852" "5125778" "5315755" "6233802").PN. OR ("6497024").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/27 16:35
S54	25	(US-20010029651-\$).did. or (US-2531048-\$ or US-3460429-\$ or US-3483788-\$ or US-3915053-\$ or US-4221152-\$ or US-4347728-\$ or US-4472096-\$ or US-4519736-\$ or US-4653969-\$ or US-4813834-\$ or US-4867625-\$ or US-4943196-\$ or US-5090852-\$ or US-5125778-\$ or US-5219255-\$ or US-5548889-\$ or US-5685663-\$ or US-6233802-\$ or US-6325582-\$ or US-6497024-\$ or US-6702684-\$ or US-RE30445-\$). did. or (US-3483788-\$).did. or (BE-892797-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2005/09/27 16:42
S55	16	("3203300" "3915053" "4208943" "4221152" "4437805" "4472096" "4519736" "4813834" "4867625" "5049016" "5090852" "5125778" "5604968" "6233802" "6325582").PN. OR ("6702684"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/27 16:53

EAST Search History

S56	48	("2531048" "2531049" "2804798" "3057246" "3066568" "3122050" "3203300" "3215024" "3290982" "3415553" "3425259" "3464306" "3915053" "4136596" "4198895" "4221152" "4299519" "4472096" "4587829" "4597263" "4768910" "4813834" "4867625" "4878372" "4900205" "4921384" "4943196" "4950115" "4977663" "5090852" "5125778" "5228817" "5315755" "5527140").PN. OR ("6325582").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/27 17:00
S57	4	"6702684"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/28 13:11
S58	3	10/117741	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/28 13:11
S59	29	(US-20010029651-\$ or US-20030190215-\$ or US-20050079030-\$ or US-20030210969-\$).did. or (US-5548889-\$ or US-5685663-\$ or US-6497024-\$ or US-4347728-\$ or US-6719510-\$ or US-2531048-\$ or US-3915053-\$ or US-4221152-\$ or US-4813834-\$ or US-4867625-\$ or US-5090852-\$ or US-6233802-\$ or US-6325582-\$ or US-6702684-\$ or US-4943196-\$ or US-4519736-\$ or US-4472096-\$ or US-5125778-\$ or US-4653969-\$ or US-3460429-\$ or US-5219255-\$ or US-RE30445-\$ or US-3483788-\$).did. or (US-3483788-\$).did. or (BE-892797-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2006/04/19 19:14
S60	245	(470/2,10).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:15
S61	2349	(29/525.01,525.02,525.11,715,515, 520,).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:15

EAST Search History

S62	284	(470/2,10,5,6).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:15
S63	202	(411/361).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/19 19:15
S64	2803	S60 S61 S62 S63	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/19 19:16
S65	118	S64 and @PD>"20050404"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/19 19:17
S66	30	(US-20010029651-\$ or US-20030190215-\$ or US-20050079030-\$ or US-20030210969-\$).did. or (US-5548889-\$ or US-5685663-\$ or US-6497024-\$ or US-4347728-\$ or US-6719510-\$ or US-2531048-\$ or US-3915053-\$ or US-4221152-\$ or US-4813834-\$ or US-4867625-\$ or US-5090852-\$ or US-6233802-\$ or US-6325582-\$ or US-6702684-\$ or US-4943196-\$ or US-4519736-\$ or US-4472096-\$ or US-5125778-\$ or US-4653969-\$ or US-3460429-\$ or US-5219255-\$ or US-RE30445-\$ or US-3483788-\$ or US-7025550-\$). did. or (US-3483788-\$).did. or (BE-892797-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2006/04/19 19:27
S67	42	("1084850" "2146461" "2526910" "2531048" "3215024" "3483788" "3915053" "3962775" "3965792" "4003288" "4044591" "4053970" "4054045" "4077299" "4164807" "4233879" "4263834" "4299519" "4402203" "4472096" "4489471" "4649732" "4874275" "4995777" "5090852" "5098238" "5315744" "5315755" "5439339" "5519926" "5548889" "5604968" "6233802" "6325582" "6357110" "6497024").PN. OR ("7025550"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 19:45

EAST Search History

S68	40	("2531048" "2531049" "2804798" "3057246" "3066568" "3122050" "3215024" "3290982" "3415553" "3425259" "3915053" "4136596" "4198895" "4221152" "4299519" "4472096" "4587829" "4597263" "4813834" "4867625" "4878372" "4921384" "4943196" "5090852" "5125778" "5315755" "6233802").PN. OR ("6497024").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 19:46
S69	72	S67 S68	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 19:46
S70	24	S69 and (interchang\$7 or different or multiple) with (collar or pin or head)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 19:47